

TAKEOFF DISTANCE MAXIMUM WEIGHT 2300 LBS

SHORT FIELD

CONDITIONS:
Flaps Up
Full Throttle Prior to Brake Release
Paved, Level, Dry Runway
Zero Wind

NOTES:

1. Short field technique as specified in Section 4.
2. Prior to takeoff from fields above 3000 feet elevation, the mixture should be leaned to give maximum RPM in a full throttle, static runup.
3. Decrease distances 10% for each 9 knots headwind. For operation with tailwinds up to 10 knots, increase distances by 10% for each 2 knots.
4. For operation on a dry, grass runway, increase distances by 15% of the "ground roll" figure.

WEIGHT LBS	TAKEOFF SPEED KIAS		PRESS ALT FT	0°C			10°C			20°C			30°C			40°C					
	LIFT OFF	AT 50 FT		TOTAL TO CLEAR		GRND ROLL	TOTAL TO CLEAR		GRND ROLL	TOTAL TO CLEAR		GRND ROLL	TOTAL TO CLEAR		GRND ROLL	TOTAL TO CLEAR		GRND ROLL			
				50 FT OBS	50 FT OBS		50 FT OBS	50 FT OBS		50 FT OBS	50 FT OBS		50 FT OBS	50 FT OBS							
2300	52	59	S.L.	1300	775	1390	835	1490	895	1590	960	1700	895	1590	960	1700	895	1590	960	1700	
			1000	790	1420	850	1525	915	1630	980	1745	1050	1865	980	1745	1050	1865	980	1745	1050	1865
			2000	865	930	1000	1670	1000	1790	1075	1915	1155	2055	1075	1915	1155	2055	1075	1915	1155	2055
			3000	950	1710	1025	1835	1100	1970	1185	2115	1270	2265	1185	2115	1270	2265	1185	2115	1270	2265
			4000	1045	1880	1125	2025	1210	2175	1300	2335	1400	2510	1300	2335	1400	2510	1300	2335	1400	2510
			5000	1150	2075	1240	2240	1335	2410	1435	2595	1540	2795	1435	2595	1540	2795	1435	2595	1540	2795
6000	1265	2305	1365	2485	1475	2680	3000	3245	1705	3125	1705	3125	1705	3125	1705	3125	1705	3125			
7000	1400	2565	1510	2770	1630	3000	3245	1890	3515	1890	3515	1890	3515	1890	3515	1890	3515	1890	3515		
8000	1550	2870	1675	3110	1805	3375	1945	3670	2095	3990	2095	3990	2095	3990	2095	3990	2095	3990			

Figure 5-4. Takeoff Distance (Sheet 1 of 2)

TAKEOFF DISTANCE 2100 LBS AND 1900 LBS

SHORT FIELD

REFER TO SHEET 1 FOR APPROPRIATE CONDITIONS AND NOTES.

WEIGHT LBS	TAKEOFF SPEED KIAS		PRESS ALT FT	0°C			10°C			20°C			30°C			40°C					
	LIFT OFF	AT 50 FT		TOTAL TO CLEAR		GRND ROLL	TOTAL TO CLEAR		GRND ROLL	TOTAL TO CLEAR		GRND ROLL	TOTAL TO CLEAR		GRND ROLL	TOTAL TO CLEAR		GRND ROLL			
				50 FT OBS	50 FT OBS		50 FT OBS	50 FT OBS		50 FT OBS	50 FT OBS		50 FT OBS	50 FT OBS		50 FT OBS	50 FT OBS				
2100	50	56	S.L.	1070	630	1140	680	1220	725	1300	780	1390	725	1300	780	1390	725	1300	780	1390	
			1000	640	1165	740	1245	795	1330	850	1420	850	1520	850	1420	850	1520	850	1420	850	1520
			2000	700	1270	755	1360	810	1455	870	1555	935	1665	870	1555	935	1665	870	1555	935	1665
			3000	770	1390	830	1490	890	1595	955	1710	1025	1830	955	1710	1025	1830	955	1710	1025	1830
			4000	845	1525	910	1640	980	1755	1050	1880	1130	2015	1050	1880	1130	2015	1050	1880	1130	2015
			5000	930	1680	1000	1805	1075	1935	1155	2075	1240	2230	1155	2075	1240	2230	1155	2075	1240	2230
6000	1025	1850	1100	1990	1185	2140	1275	2300	1370	2475	1275	2300	1370	2475	1275	2300	1370	2475			
7000	1130	2050	1215	2210	1310	2380	1410	2560	1515	2755	1410	2560	1515	2755	1410	2560	1515	2755			
8000	1245	2275	1345	2460	1450	2655	1560	2865	1680	3090	1560	2865	1680	3090	1560	2865	1680	3090			
1900	47	S.L.	865	505	920	540	985	580	1045	620	1115	580	1045	620	1115	580	1045	620	1115		
		1000	515	940	550	1005	590	1070	635	1140	680	1215	635	1140	680	1215	635	1140	680	1215	
		2000	560	1025	1095	645	1170	695	1245	745	1330	745	1330	745	1330	745	1330	745	1330		
		3000	615	1115	1195	710	1275	760	1365	815	1455	815	1455	815	1455	815	1455	815	1455		
		4000	670	1220	1305	780	1400	835	1495	895	1595	895	1595	895	1595	895	1595	895	1595		
		5000	740	1340	1435	855	1535	920	1640	985	1755	985	1755	985	1755	985	1755	985	1755		
6000	810	1470	1575	940	1690	1010	1810	1085	1940	1085	1940	1085	1940	1085	1940	1085	1940				
7000	895	1620	1740	1035	1865	1115	2000	1195	2145	1195	2145	1195	2145	1195	2145	1195	2145				
8000	985	1790	1925	1145	2065	1230	2220	1320	2385	1320	2385	1320	2385	1320	2385	1320	2385				

Figure 5-4. Takeoff Distance (Sheet 2 of 2)